

Final Presentation

AI-based Vocabulary Application

 VOCARD

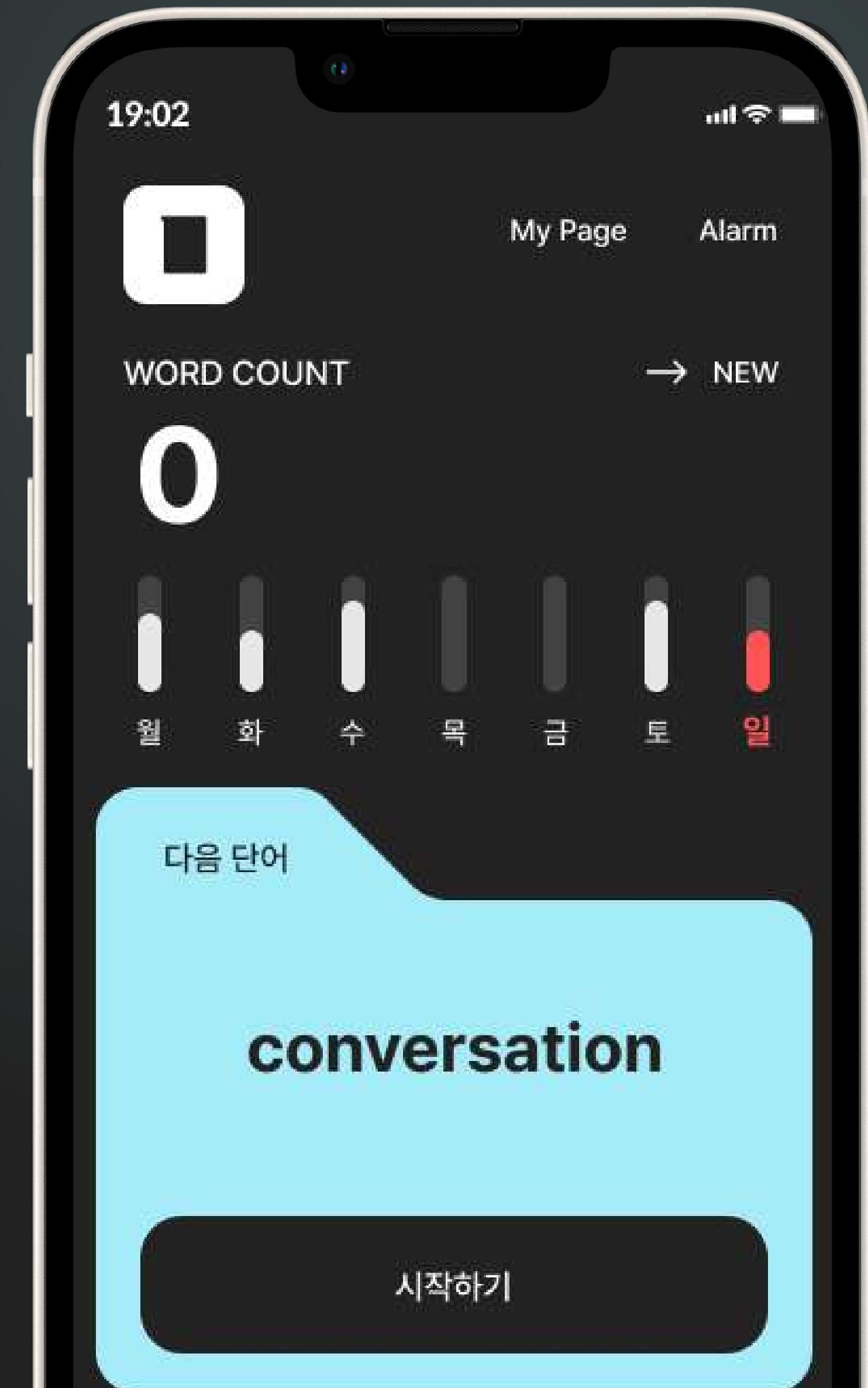
D조

김민지

어영준

조예현

강창우





**Vocabulary Learning Application that helps you learn English words efficiently with the help of powerful AI tools**

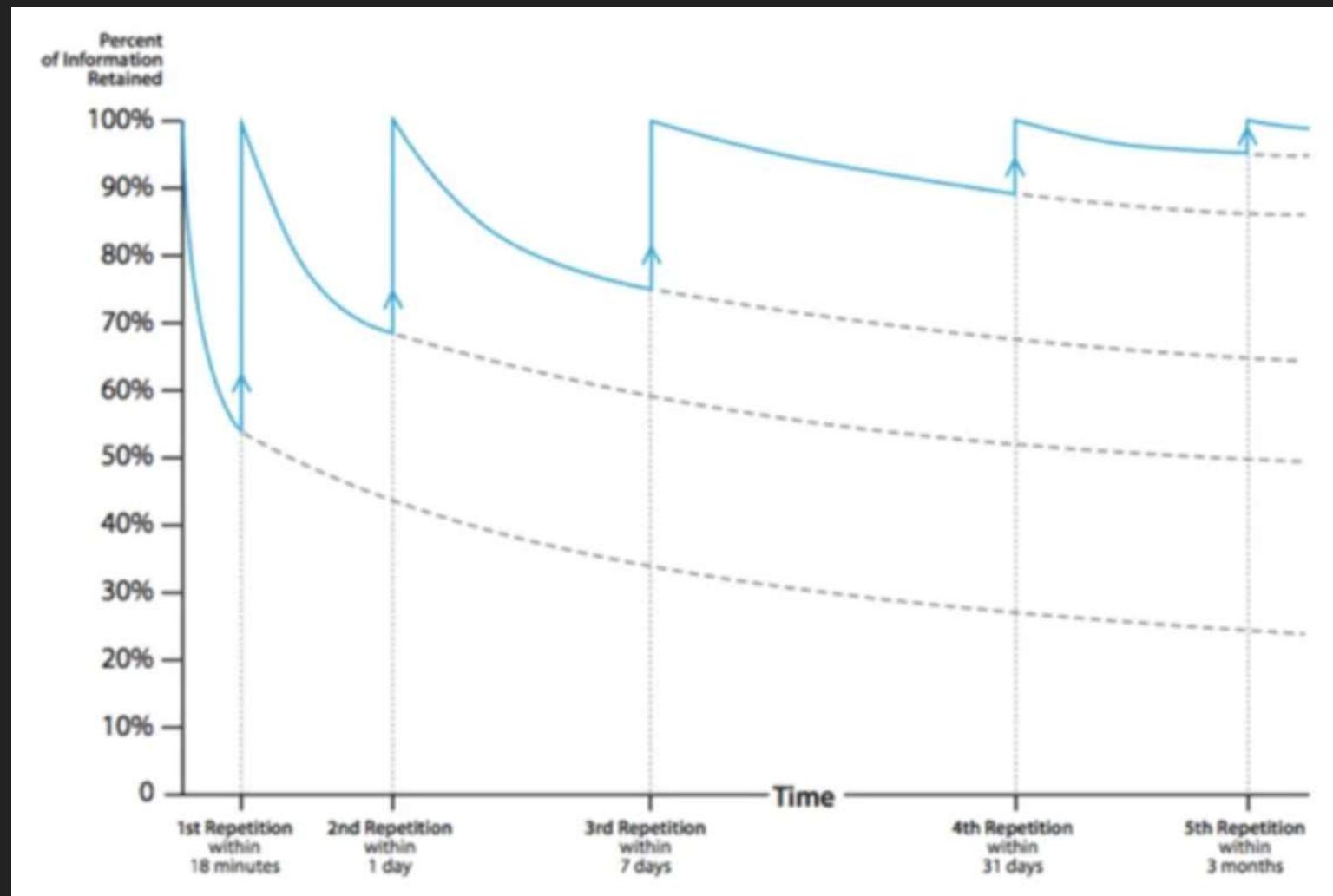


# Project Goal

1. Minimize development costs

2. Maximize memorization efficiency

- Forgetting Curve



→ Rate of Forgetting with Study/Repetition

- Practical application of newly learned vocabulary



# Project progress

## Team Member Roles

### Frontend

Yehyun Jo

Changwoo Kang

### Backend

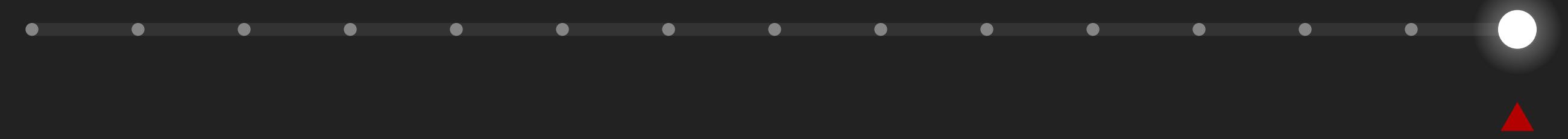
Young Joon Eo

### Design

Minji Kim

## Project Timeline

W1

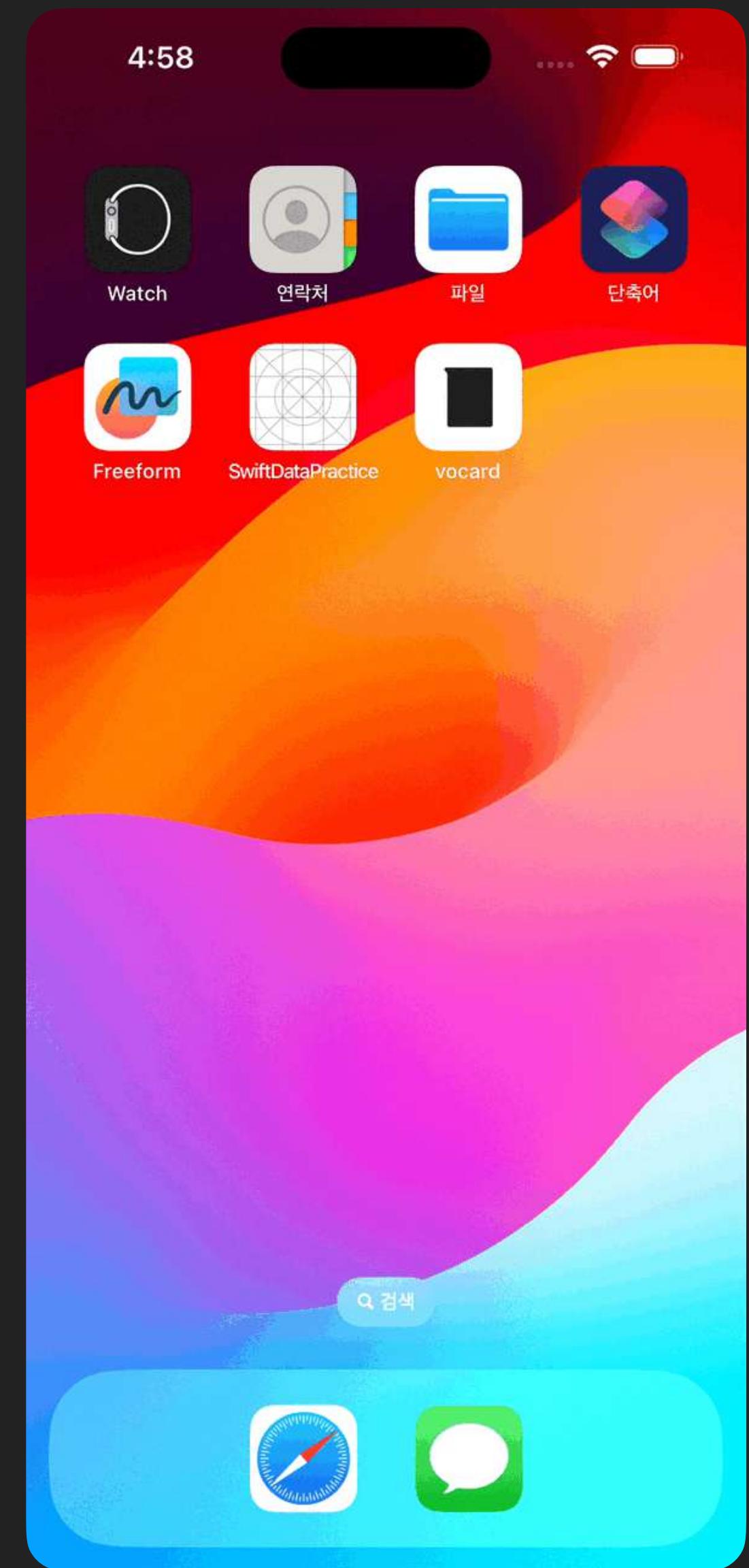


## Milestones

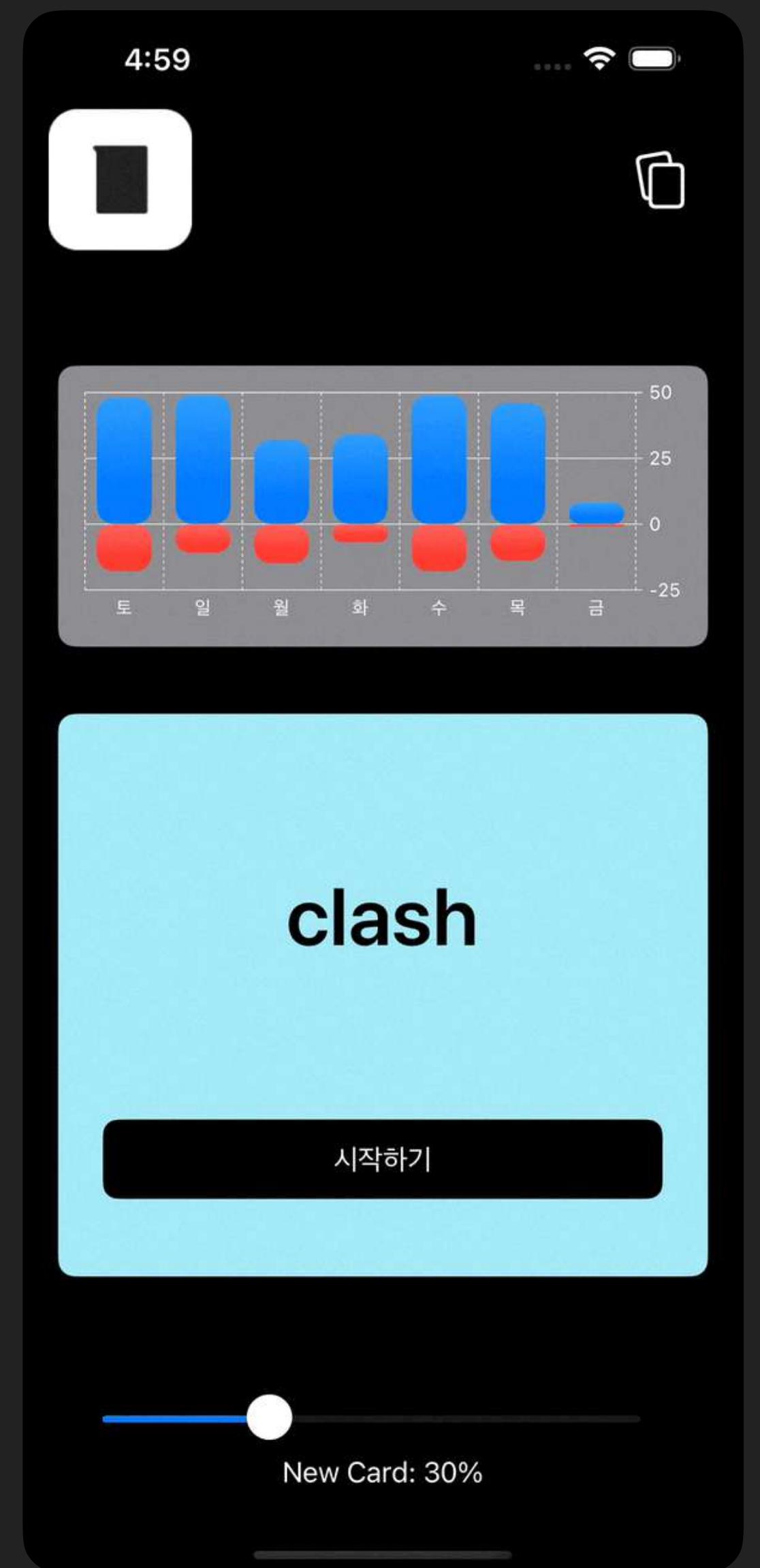
1. Finalized Design Structure & Information Architecture
2. Finalized API Endpoints
3. Finalized Alpha Build



# Final Design

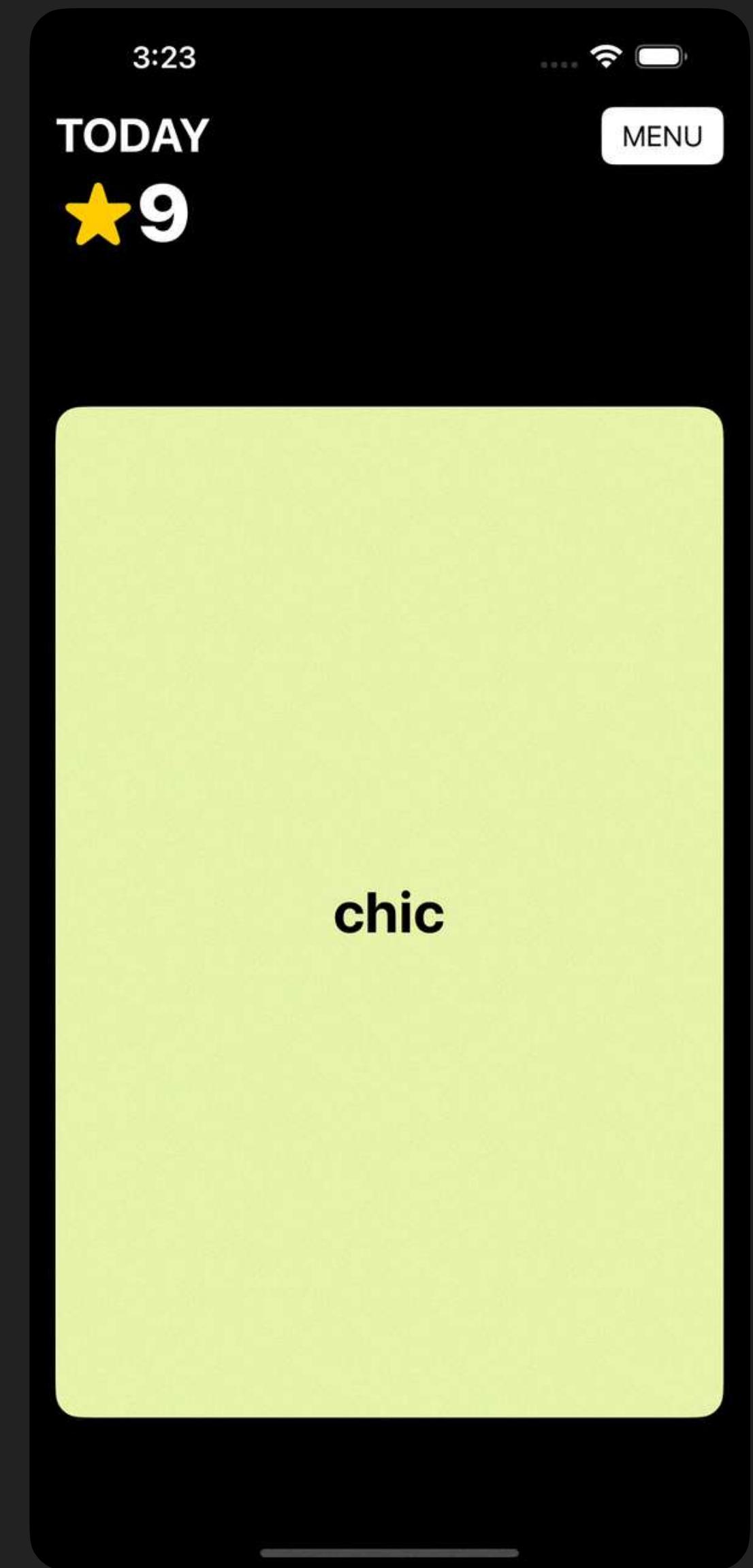
 #01 Main screen

# Final Design #02 Study card



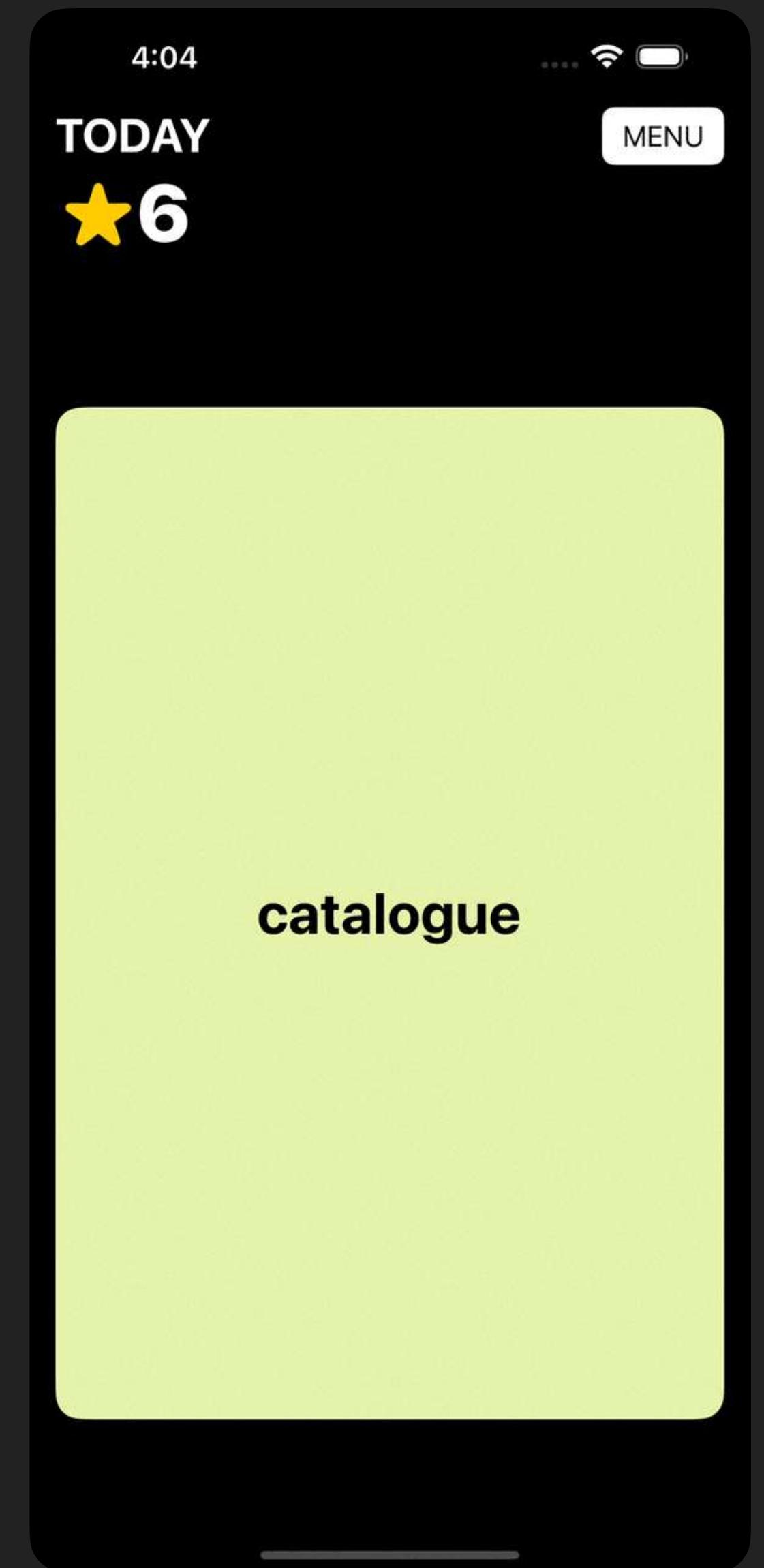
# Final Design

#03 Card detail



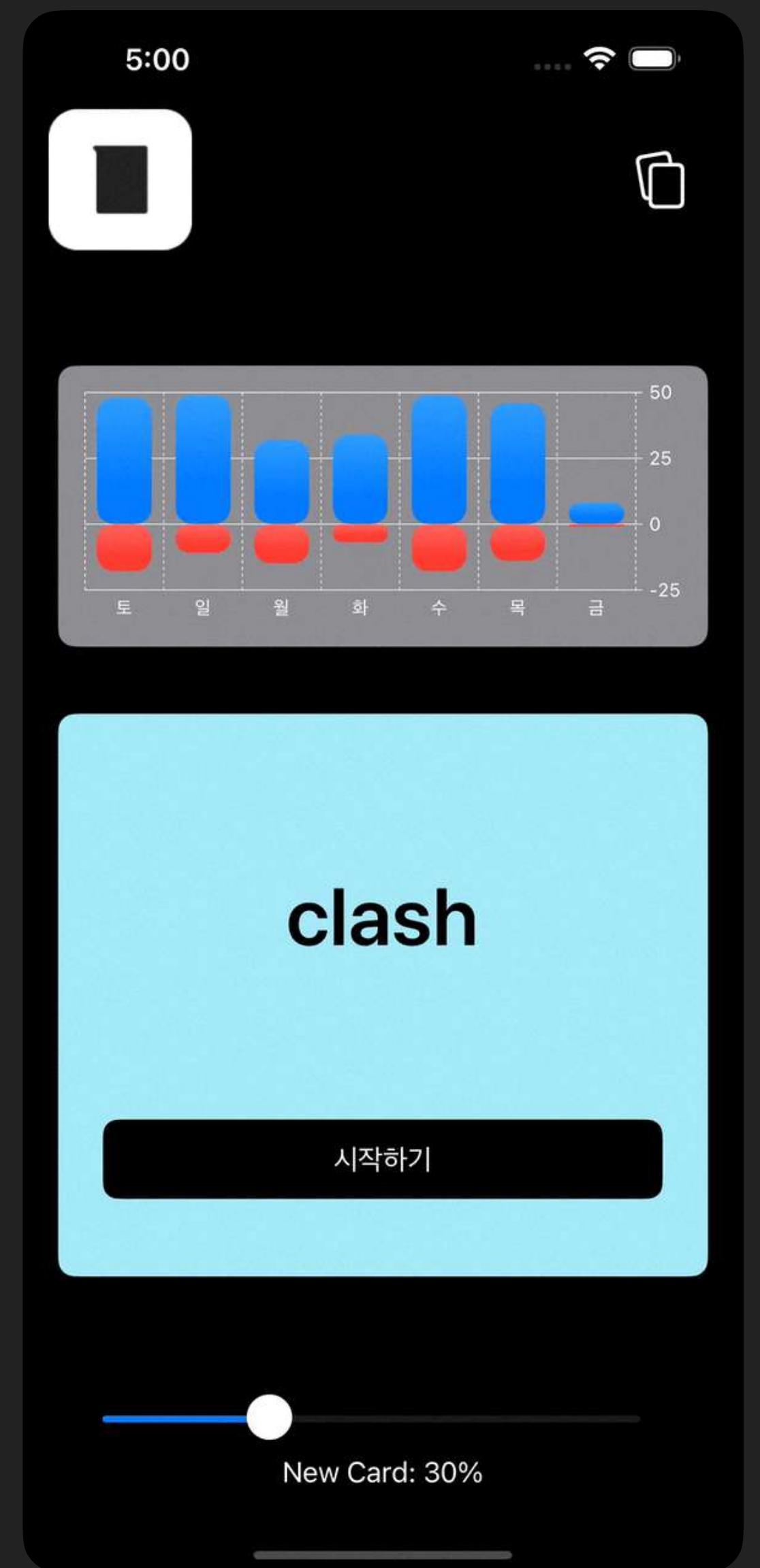
# Final Design

#04 Quiz

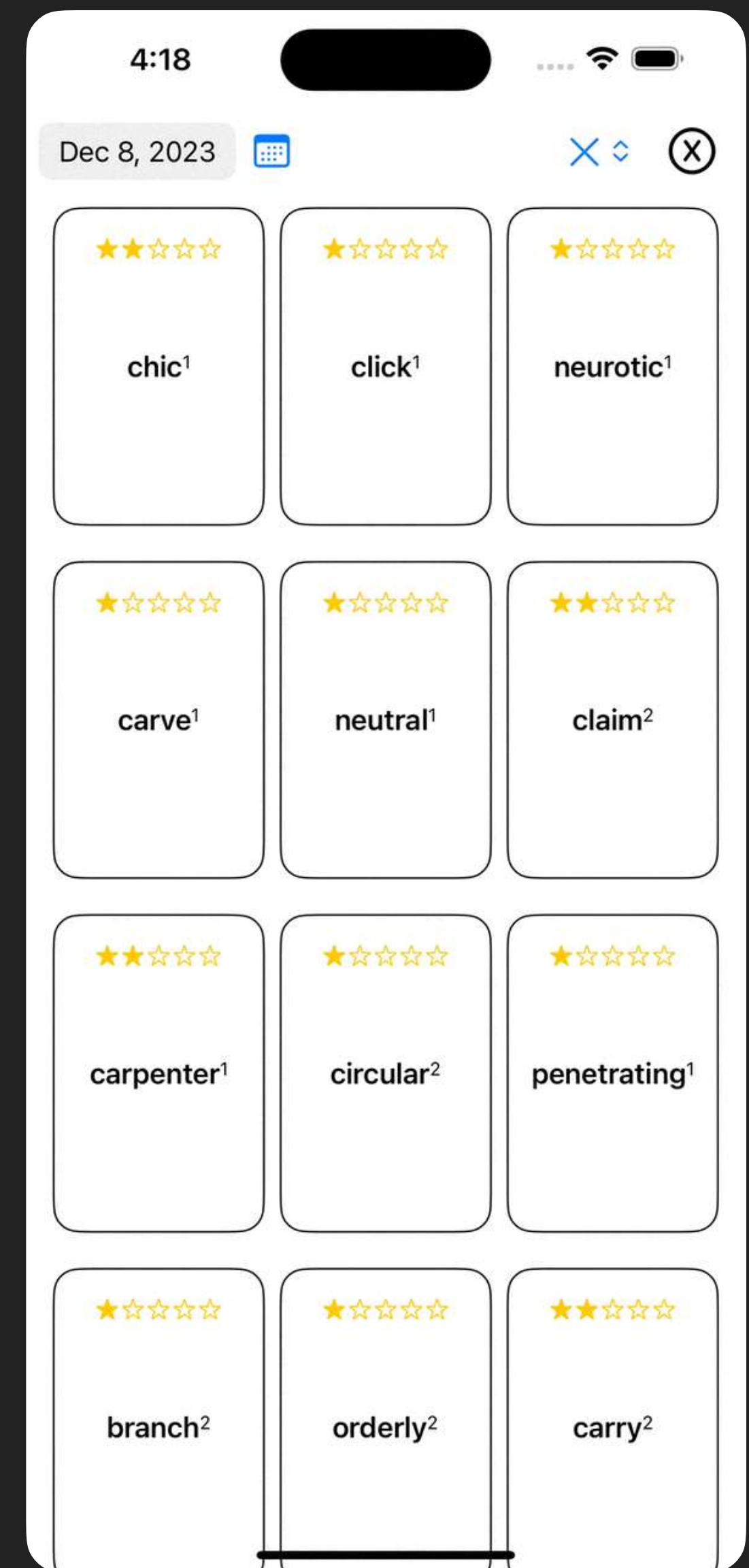


# Final Design

#05 History

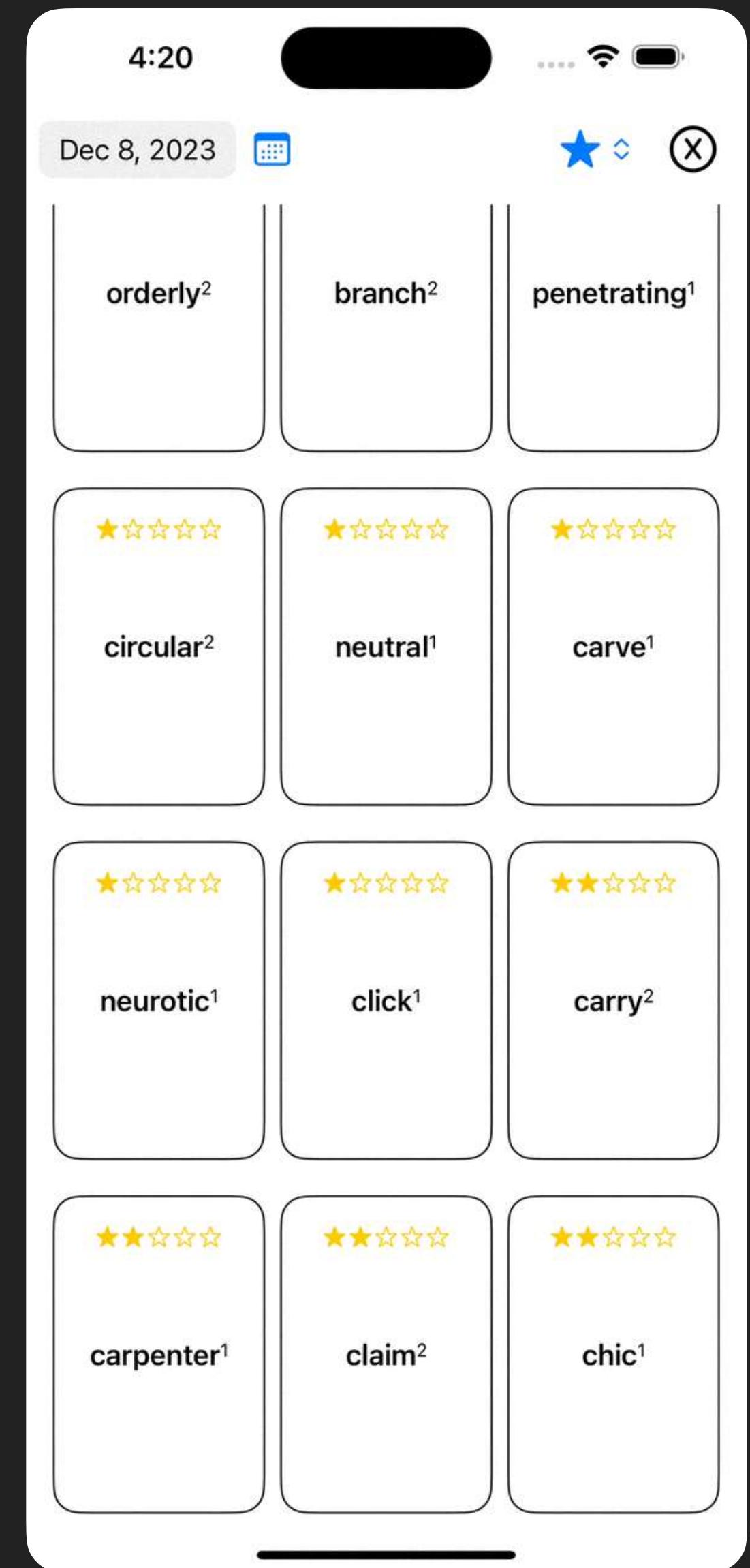


# Final Design #06 Daily history

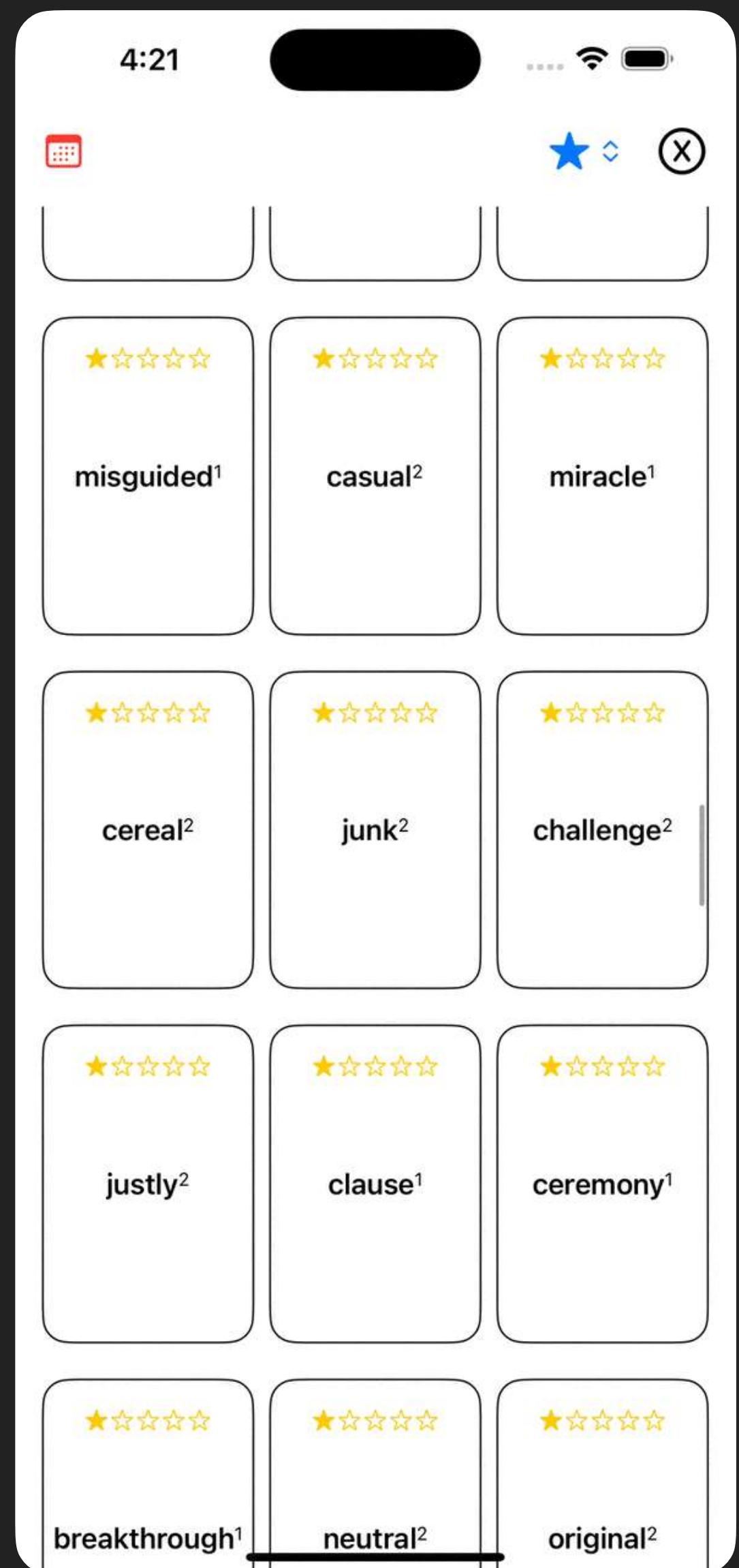


# Final Design

#07 Word history

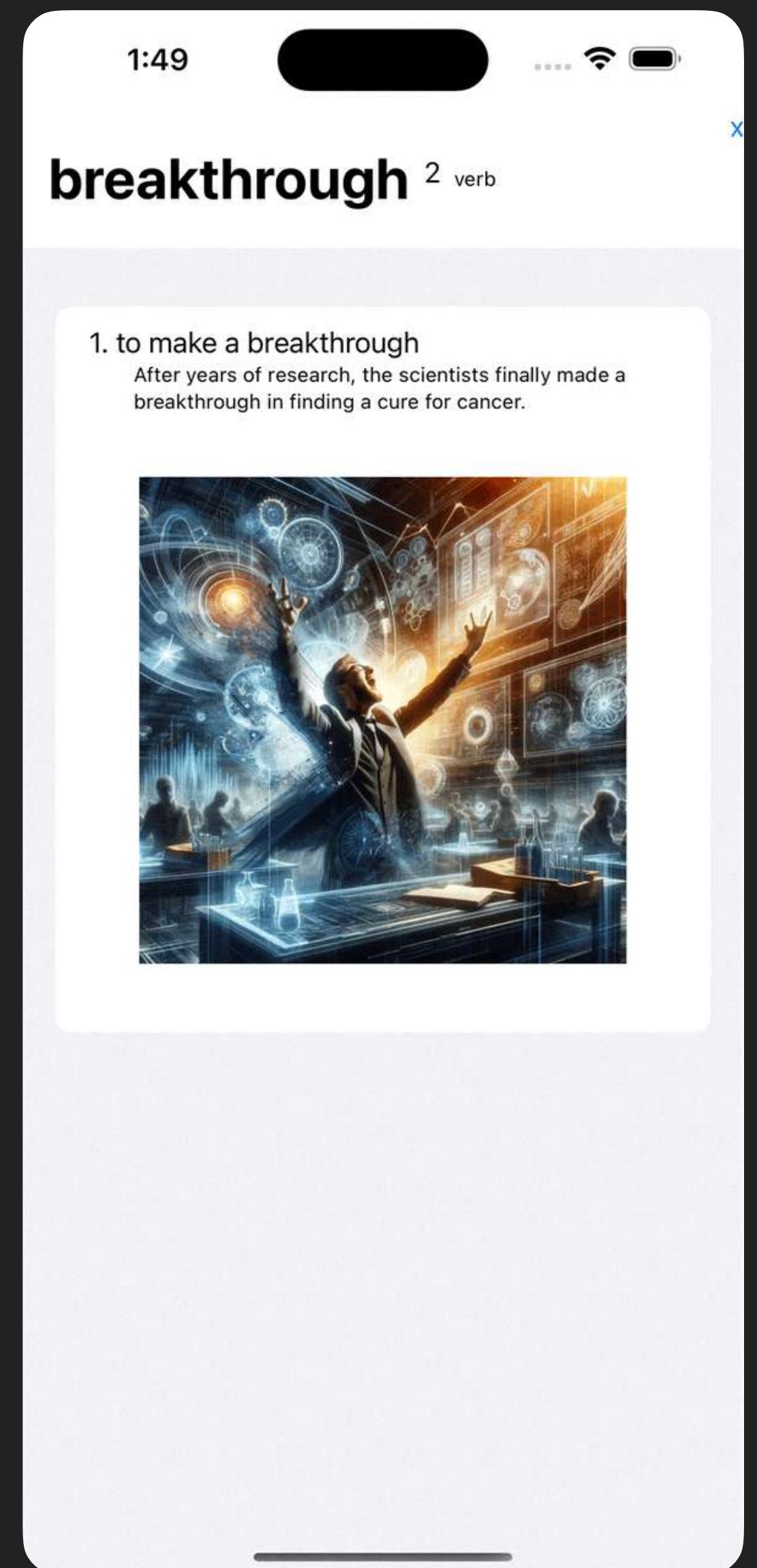


# Final Design #08 Default

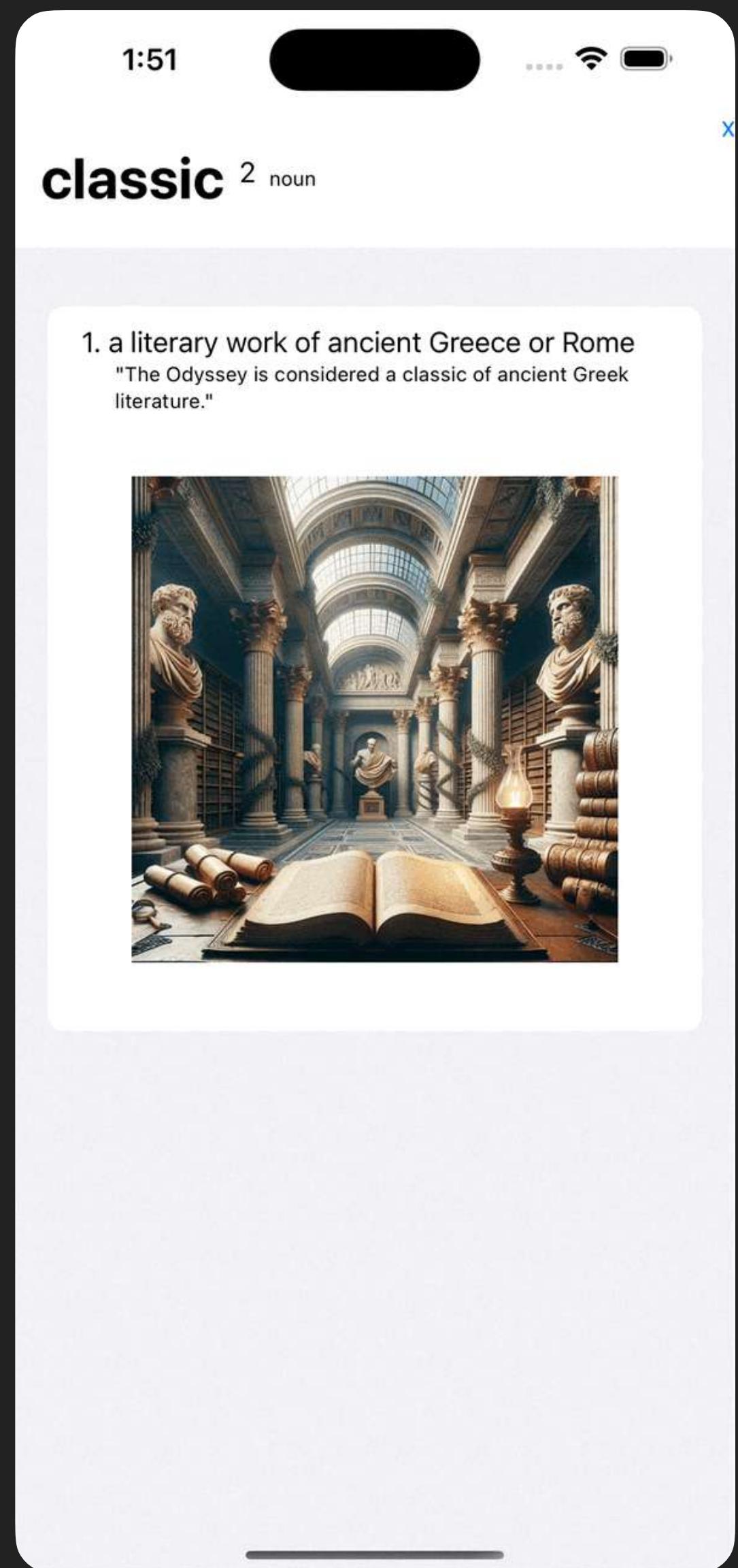


# Final Design

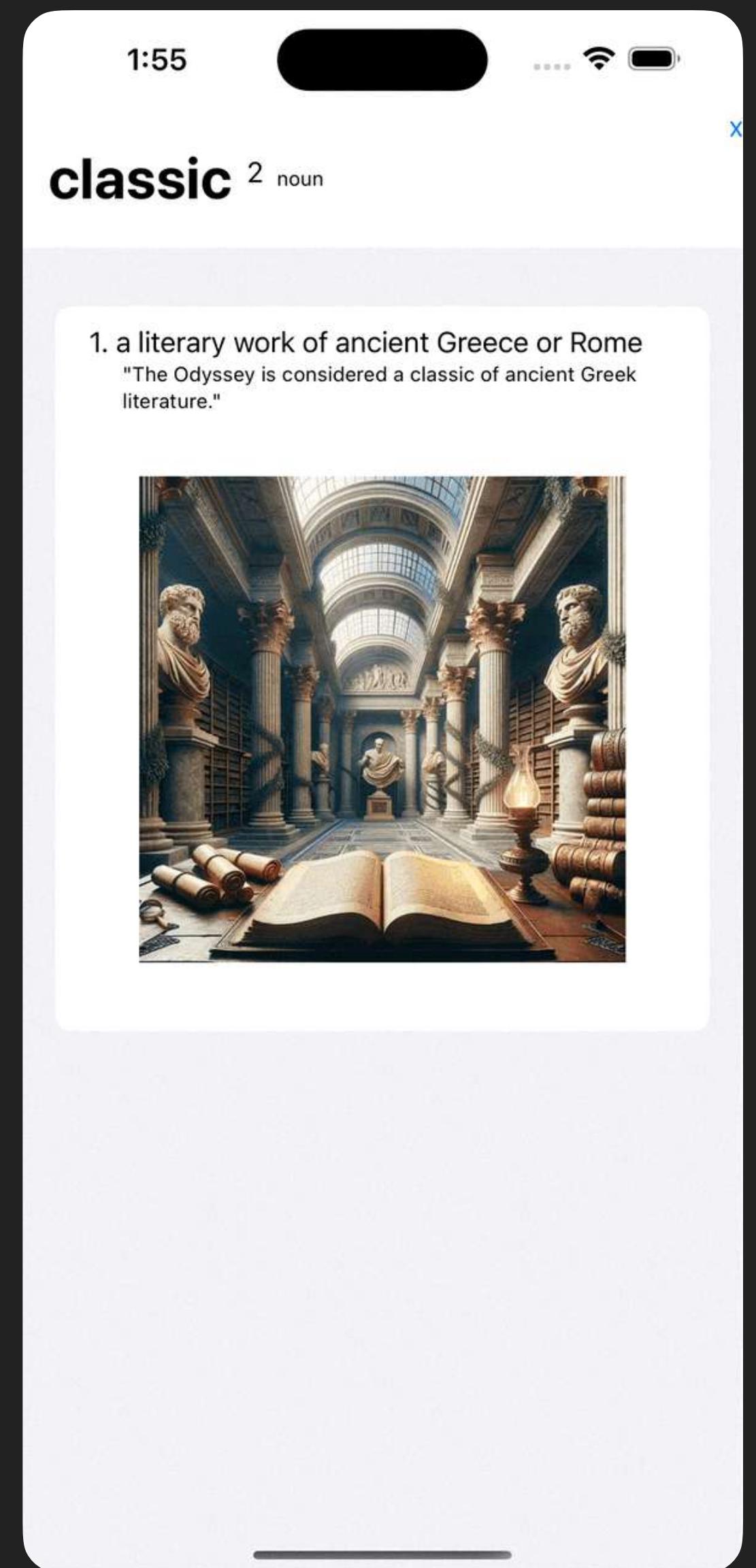
#09 GPT study



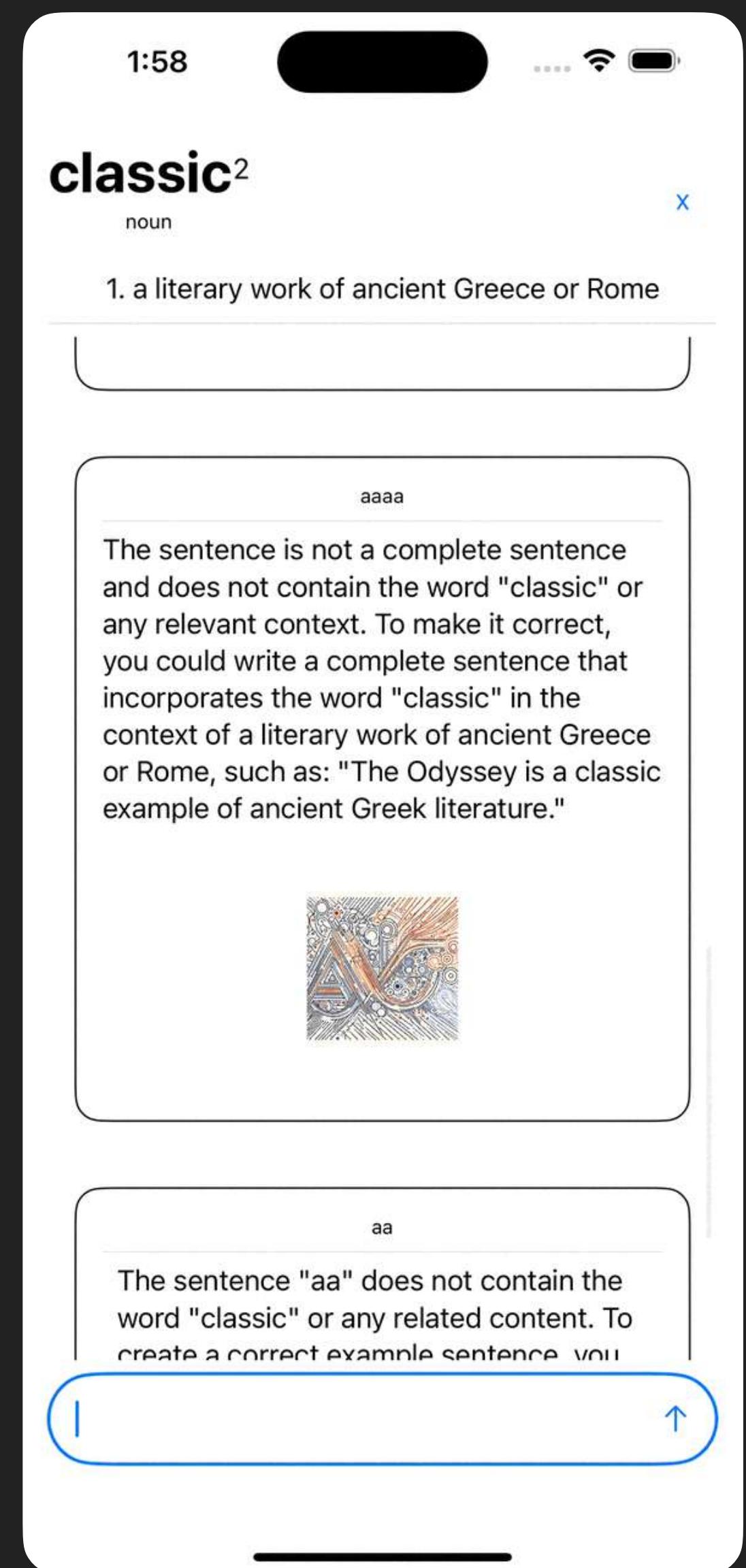
# Final Design #10 GPT



# Final Design #11 Image



# Final Design #12 Image

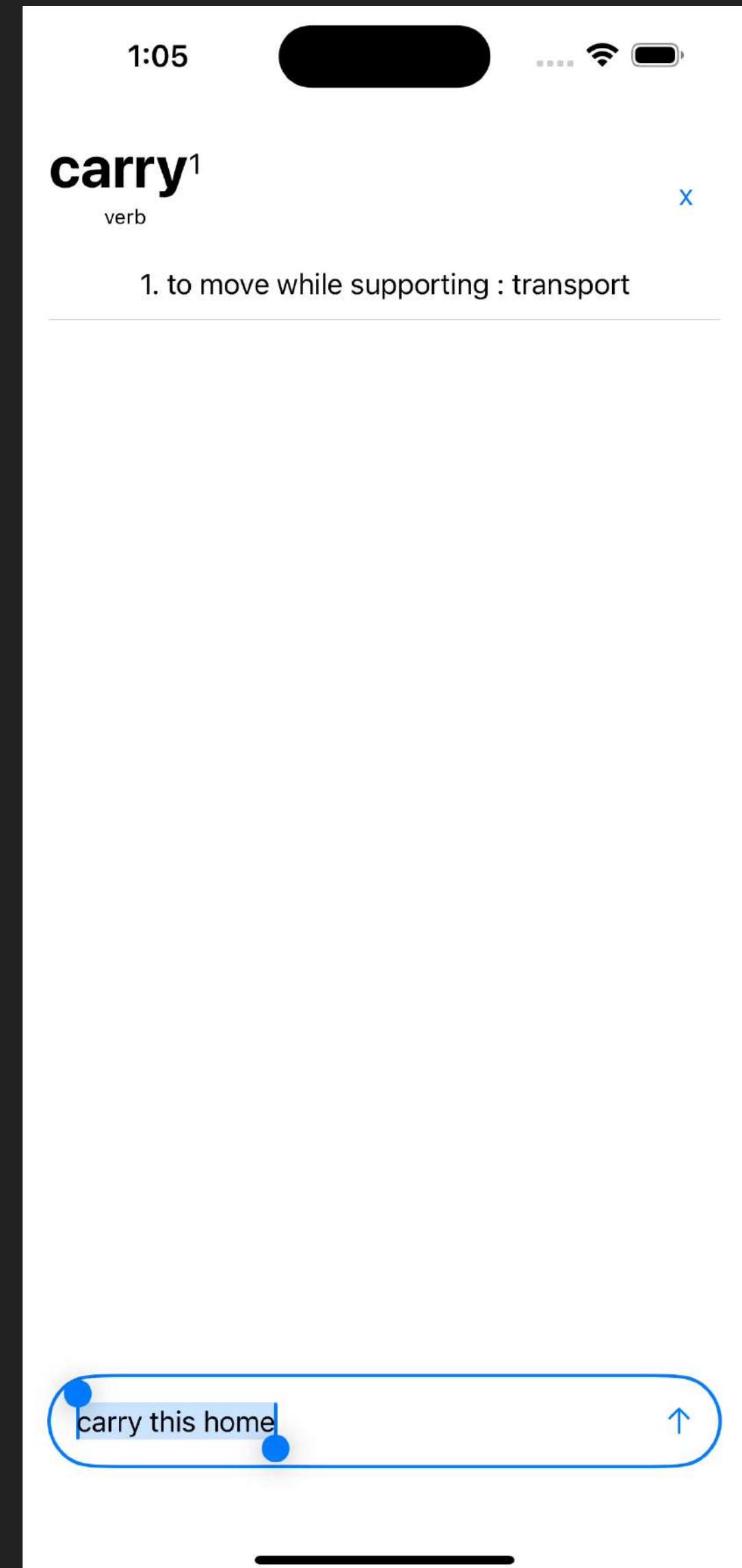


# Challenges

## Frontend

" Asynchronous update issue "

An "asynchronous update issue" refers to a problem where the state of an application's user interface (UI) does not accurately reflect the current state of the application's data due to the asynchronous nature of data fetching or processing operations.



# Challenges

## Backend

### " Word List Generation "

1. Definition Acquisition
2. Realistic Solution: Web Crawling
  - a. Not without its flaws
  - b. Manual Review Required

```
"chant": {  
    "pos": [  
        "verb",  
        "noun"  
    ],  
    "meaning": [  
        "to make melodic sounds with the voice",  
        "song sense 1"  
    ]  
}
```



# Challenges

## Backend

“ Image Generation ”

1. Consistent results nigh impossible with just prompt engineering

2. Manual Review Required, even with Dalle-3

→ Human Labor Costs



# Challenges

## Example: Chic

smart elegance and sophistication especially of dress or manner : style



# Limitations

“ Choosing the Right Meanings ”

1. Which definition of a certain word

is used most commonly?

2. Solution: Ask ChatGPT for two definitions

You  
list two common definitions for the word "chant" without any frivolous explanations

ChatGPT  
Certainly, here are two common definitions for the word "chant" without any additional explanation:

1. A repetitive and melodious vocalization of words or phrases, often used in religious or spiritual ceremonies.
2. The rhythmic repetition of words, phrases, or slogans, typically in a vocal and collective manner, often used in protests, sports events, or other group activities.

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## **Evaluations : Project Results**

- **Achieved Alpha Build**

1. Implemented all major features

2. Frontend & Backend Linked

3. To go "Gold" :
  - a. User Authentication & Security Measures

: Currently only OAuth with KakaoLogin present, but not being used

- b. Firebase Database Sync

- c. Long Term User Testing : Test practical application of our Study System

- d. More Application UI/UX Iteration



# **Evaluations** : Project Results

- **Final Thoughts**

1. Appropriate Communication Platform
2. Feature Creep
3. Flexible Requirements are a Good Thing, Right?



# Demonstration

 VOCARD



